

DECLARATION AND POWER OF ATTORNEY

Atty. Dkt. No.:

DECLARATION

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND APPARATUS FOR HIGH-EFFICIENCY SYNTHESIS OF CARBON NANOSTRUCTURE, AND CARBON NANOSTRUCTURE

the specification of which (check one)

- is attached hereto.
or
 was filed on March 23, 2004 as Application Serial No. _____ or PCT International Application No. PCT/JP2004/003988 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. §§ 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed:

| PRIOR FOREIGN APPLICATION(S) | | | | |
|------------------------------|---------|----------------------------|-------------------------------------|--------------------------|
| APPN. SERIAL NO. | COUNTRY | DATE FILED (MM/DD/YYYY) | PRIORITY CLAIM | |
| | | | Yes | No |
| 2003-81651 | Japan | 03/24/2003 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> |

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I hereby appoint Donald J. Daley, Reg. No. 34,313, and all remaining attorneys from the law firm of Harness, Dickey & Pierce, P.L.C. (Customer No. 30593), giving them full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

CORRESPONDENCE ADDRESS

I request the Patent and Trademark Office to direct all correspondence and telephone calls relative to this application to Harness, Dickey & Pierce, P.L.C., Customer No. 30593, P.O. Box 8910, Reston, Virginia, 20195, (703) 668-8000.

DECLARATION AND POWER OF ATTORNEY

Atty. Dkt. No.:

Full name of sole or first inventor: Osamu SUEKANE

Inventor's signature: Osamu Suekane

Date: Sept. 6, 2005

Residence: 70-140, Nojiri-cho, Sakai-city, Osaka 599-8116 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of second joint inventor: Toshikazu NOSAKA

Inventor's signature: _____

Date: _____

Residence: 5-12-301, Ibukino 3-chome, Izumi-city, Osaka 594-0041 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of third joint inventor: Yoshikazu NAKAYAMA

Inventor's signature: _____

Date: _____

Residence: 9-404, 14-2, Korigaoka 1-chome, Hirakata-city, Osaka 573-0084 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of fourth joint inventor: Lujun PAN

Inventor's signature: _____

Date: _____

Residence: 6-12-308, Shinkanaoka-cho 4-cho, Sakai-city, Osaka 591-8021 Japan

Citizenship: China

Mailing Address: SAME AS ABOVE

Full name of fifth joint inventor: Takeshi NAGASAKA

Inventor's signature: _____

Date: _____

Residence: c/o TAIYO NIPPON SANZO CORPORATION,
3-26, Koyama 1-chome, Shinagawa-ku, Tokyo 142-8558 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

DECLARATION AND POWER OF ATTORNEY

Full name of sixth joint inventor: Toru SAKAI

Inventor's signature: _____

Date: _____

Residence: c/o TAIYO NIPPON SANSO CORPORATION,
3-26, Koyama 1-chome, Shinagawa-ku, Tokyo 142-8558 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of seventh joint inventor: Hiroyuki TSUCHIYA

Inventor's signature: _____

Date: _____

Residence: c/o NISSIN ELECTRIC Co., Ltd.,
47, Umez-Takase-Cho, Ukyo-ku, Kyoto-city, Kyoto 615-8686 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of eighth joint inventor: Toshiki GOTO

Inventor's signature: _____

Date: _____

Residence: c/o OTSUKA CHEMICAL Co., Ltd.,
2-27, Otedori 3-chome, Chuo-ku, Osaka-city, Osaka 540-0021 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of ninth joint inventor: Xu LI

Inventor's signature: _____

Date: _____

Residence: c/o DAIKEN CHEMICAL Co., Ltd.,
7-19, Hanaten-nishi 2-chome, Joto-ku, Osaka-city, Osaka 536-0011 Japan

Citizenship: China

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Inventor's signature: _____

Date: _____

Residence: 70-140, Nojiri-cho, Sakai-city, Osaka 599-8116 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of second joint inventor: Toshikazu NOSAKA

Inventor's signature: Toshikazu Nosaka

Date: September 5, 2005

Residence: 5-12-301, Ibukino 3-chome, Izumi-city, Osaka 594-0041 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of third joint inventor: Yoshikazu NAKAYAMA

Inventor's signature: _____

Date: _____

Residence: 9-404, 14-2, Korigaoka 1-chome, Hirakata-city, Osaka 573-0084 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of fourth joint inventor: Lujun PAN

Inventor's signature: _____

Date: _____

Residence: 6-12-308, Shinkanaoka-cho 4-cho, Sakai-city, Osaka 591-8021 Japan

Citizenship: China

Mailing Address: SAME AS ABOVE

Full name of fifth joint inventor: Takeshi NAGASAKA

Inventor's signature: _____

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Inventor's signature: _____

Date: _____

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3-26, Koyama 1-chome, Shinagawa-ku, Tokyo 142-8558 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of seventh joint inventor: Hiroyuki TSUCHIYA

Inventor's signature: _____

Date: _____

Residence: c/o NISSIN ELECTRIC Co., Ltd.,
47, Umezu-Takase-Cho, Ukyo-ku, Kyoto-city, Kyoto 615-8686 Japan

Citizenship: Japanese

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Full name of eighth joint inventor: Toshiki GOTO

Inventor's signature: _____

Date: _____

Residence: c/o OTSUKA CHEMICAL Co., Ltd.,
2-27, Otedori 3-chome, Chuo-ku, Osaka-city, Osaka 540-0021 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of ninth joint inventor: Xu LI

Inventor's signature: _____

Date: _____

Residence: c/o DAIKEN CHEMICAL Co., Ltd.,

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Full name of sole or first inventor: Osamu SUEKANE

Inventor's signature: _____

Date: _____

Residence: 70-140, Nojiri-cho, Sakai-city, Osaka 599-8116 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of second joint inventor: Toshikazu NOSAKA

Inventor's signature: _____

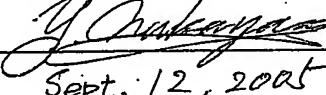
Date: _____

Residence: 5-12-301, Ibukino 3-chome, Izumi-city, Osaka 594-0041 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of third joint inventor: Yoshikazu NAKAYAMA

Inventor's signature: 

Date: Sept. 12, 2005

Residence: 9-404, 14-2, Korigaoka 1-chome, Hirakata-city, Osaka 573-0084 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of fourth joint inventor: Lujun PAN

Inventor's signature: 

Date: Sept. 13, 2005

Residence: 6-12-308, Shinkanaoka-cho 4-cho, Sakai-city, Osaka 591-8021 Japan

Citizenship: China

Mailing Address: SAME AS ABOVE

Full name of fifth joint inventor: Takeshi NAGASAKA

Inventor's signature: _____

Date: _____

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Full name of seventh joint inventor: Hiroyuki TSUCHIYA

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Date: _____

Residence: c/o NISSIN ELECTRIC Co., Ltd.,
47, Umez-Takase-Cho, Ukyo-ku, Kyoto-city, Kyoto 615-8686 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of eighth joint inventor: Toshiki GOTO

Inventor's signature: _____

Date: _____

Residence: c/o OTSUKA CHEMICAL Co., Ltd.,
2-27, Otedori 3-chome, Chuo-ku, Osaka-city, Osaka 540-0021 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of ninth joint inventor: Xu LI

Inventor's signature: _____

Date: _____

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Inventor's signature: Takeshi Nagasaka

Date: 09/06/2005

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Mailing Address: SAME AS ABOVE

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Inventor's signature: Toru Sakai

Date: 09/05/2008

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Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of seventh joint inventor: Hiroyuki TSUCHIYA

Inventor's signature: _____

Date: _____

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Inventor's signature: _____

Date: _____

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Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of ninth joint inventor: Xu LI

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| PRIOR PROVISIONAL APPLICATION(S) | |
|----------------------------------|-------------------------|
| APPN. SERIAL NO. | DATE FILED (MM/DD/YYYY) |
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I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below:

| PRIOR U.S. APPLICATION(S) | | |
|---------------------------|-------------------------|--|
| APPN. SERIAL NO. | DATE FILED (MM/DD/YYYY) | STATUS - PATENTED, PENDING, ABANDONED |
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY

I hereby appoint Donald J. Daley, Reg. No. 34,313, and all remaining attorneys from the law firm of Harness, Dickey & Pierce, P.L.C. (Customer No. 30593), giving them full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

CORRESPONDENCE ADDRESS

I request the Patent and Trademark Office to direct all correspondence and telephone calls relative to this application to Harness, Dickey & Pierce, P.L.C., Customer No. 30593, P.O. Box 8910, Reston, Virginia, 20195, (703) 668-8000.

DECLARATION AND POWER OF ATTORNEY

Atty. Dkt. No.:

Full name of sole or first inventor: Osamu SUEKANE

Inventor's signature: _____

Date: _____

Residence: 70-140, Nojiri-cho, Sakai-city, Osaka 599-8116 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of second joint inventor: Toshikazu NOSAKA

Inventor's signature: _____

Date: _____

Residence: 5-12-301, Ibukino 3-chome, Izumi-city, Osaka 594-0041 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of third joint inventor: Yoshikazu NAKAYAMA

Inventor's signature: _____

Date: _____

Residence: 9-404, 14-2, Korigaoka 1-chome, Hirakata-city, Osaka 573-0084 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of fourth joint inventor: Lujun PAN

Inventor's signature: _____

Date: _____

Residence: 6-12-308, Shinkanaoka-cho 4-cho, Sakai-city, Osaka 591-8021 Japan

Citizenship: China

Mailing Address: SAME AS ABOVE

Full name of fifth joint inventor: Takeshi NAGASAKA

Inventor's signature: _____

Date: _____

Residence: c/o TAIYO NIPPON SANZO CORPORATION,
3-26, Koyama 1-chome, Shinagawa-ku, Tokyo 142-8558 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

DECLARATION AND POWER OF ATTORNEY

Full name of sixth joint inventor: Toru SAKAI

Inventor's signature: _____

Date: _____

Residence: c/o TAIYO NIPPON SANZO CORPORATION,
3-26, Koyama 1-chome, Shinagawa-ku, Tokyo 142-8558 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of seventh joint inventor: Hiroyuki TSUCHIYA

Inventor's signature: Hiroyuki TSUCHIYA

Date: 09/01/2005

Residence: c/o NISSIN ELECTRIC Co., Ltd.,
47, Umez-Takase-Cho, Ukyo-ku, Kyoto-city, Kyoto 615-8686 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of eighth joint inventor: Toshiki GOTO

Inventor's signature: _____

Date: _____

Residence: c/o OTSUKA CHEMICAL Co., Ltd.,
2-27, Otedori 3-chome, Chuo-ku, Osaka-city, Osaka 540-0021 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of ninth joint inventor: Xu LI

Inventor's signature: _____

Date: _____

Residence: c/o DAIKEN CHEMICAL Co., Ltd.,

7-19, Hanaten-nishi 2-chome, Joto-ku, Osaka-city, Osaka 536-0011 Japan

Citizenship: China

Mailing Address: SAME AS ABOVE

DECLARATION AND POWER OF ATTORNEY

Atty. Dkt. No.:

DECLARATION

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND APPARATUS FOR HIGH-EFFICIENCY SYNTHESIS OF CARBON NANOSTRUCTURE, AND CARBON NANOSTRUCTURE

the specification of which (check one)

- is attached hereto.
or
 was filed on March 23, 2004 as Application Serial No. _____ or PCT International Application No. PCT/JP2004/003988 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. §§ 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed:

| PRIOR FOREIGN APPLICATION(S) | | | PRIORITY CLAIM | |
|------------------------------|---------|----------------------------|-------------------------------------|--------------------------|
| APPN. SERIAL NO. | COUNTRY | DATE FILED (MM/DD/YYYY) | Yes | No |
| 2003-81651 | Japan | 03/24/2003 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> |

DECLARATION AND POWER OF ATTORNEY

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| PRIOR U.S. APPLICATION(S) | | |
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| APPN. SERIAL NO. | DATE FILED (MM/DD/YYYY) | STATUS - PATENTED, PENDING, ABANDONED |
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Full name of sole or first inventor: Osamu SUEKANE

Inventor's signature: _____

Date: _____

Residence: 70-140, Nojiri-cho, Sakai-city, Osaka 599-8116 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of second joint inventor: Toshikazu NOSAKA

Inventor's signature: _____

Date: _____

Residence: 5-12-301, Ibukino 3-chome, Izumi-city, Osaka 594-0041 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of third joint inventor: Yoshikazu NAKAYAMA

Inventor's signature: _____

Date: _____

Residence: 9-404, 14-2, Korigaoka 1-chome, Hirakata-city, Osaka 573-0084 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of fourth joint inventor: Lujun PAN

Inventor's signature: _____

Date: _____

Residence: 6-12-308, Shinkanaoka-cho 4-cho, Sakai-city, Osaka 591-8021 Japan

Citizenship: China

Mailing Address: SAME AS ABOVE

Full name of fifth joint inventor: Takeshi NAGASAKA

Inventor's signature: _____

Date: _____

Residence: c/o TAIYO NIPPON SANZO CORPORATION,
3-26, Koyama 1-chome, Shinagawa-ku, Tokyo 142-8558 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

DECLARATION AND POWER OF ATTORNEY

Full name of sixth joint inventor: Toru SAKAI

Inventor's signature: _____

Date: _____

Residence: c/o TAIYO NIPPON SANZO CORPORATION,

3-26, Koyama 1-chome, Shinagawa-ku, Tokyo 142-8558 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of seventh joint inventor: Hiroyuki TSUCHIYA

Inventor's signature: _____

Date: _____

Residence: c/o NISSIN ELECTRIC Co., Ltd.,

47, Umezuka-Takase-Cho, Ukyo-ku, Kyoto-city, Kyoto 615-8686 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of eighth joint inventor: Toshiki GOTO

Inventor's signature: Toshiki Goto

Date: September 14, 2005

Residence: c/o OTSUKA CHEMICAL Co., Ltd.,

2-27, Otedori 3-chome, Chuo-ku, Osaka-city, Osaka 540-0021 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of ninth joint inventor: Xu LI

Inventor's signature: _____

Date: _____

Residence: c/o DAIKEN CHEMICAL Co., Ltd.,

7-19, Hanaten-nishi 2-chome, Joto-ku, Osaka-city, Osaka 536-0011 Japan

Citizenship: China

Mailing Address: SAME AS ABOVE

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| APPN. SERIAL NO. | COUNTRY | DATE FILED (MM/DD/YYYY) | Yes | No |
| 2003-81651 | Japan | 03/24/2003 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Citizenship: Japanese

Mailing Address: SAME AS ABOVE

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Inventor's signature: _____

Date: _____

Residence: 5-12-301, Ibukino 3-chome, Izumi-city, Osaka 594-0041 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of third joint inventor: Yoshikazu NAKAYAMA

Inventor's signature: _____

Date: _____

Residence: 9-404, 14-2, Korigaoka 1-chome, Hirakata-city, Osaka 573-0084 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

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Inventor's signature: _____

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Residence: 6-12-308, Shinkanaoka-cho 4-cho, Sakai-city, Osaka 591-8021 Japan

Citizenship: China

Mailing Address: SAME AS ABOVE

Full name of fifth joint inventor: Takeshi NAGASAKA

Inventor's signature: _____

Date: _____

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Citizenship: Japanese

Mailing Address: SAME AS ABOVE

DECLARATION AND POWER OF ATTORNEY

Full name of sixth joint inventor: Toru SAKAI

Inventor's signature: _____

Date: _____

Residence: c/o TAIYO NIPPON SANZO CORPORATION,
3-26, Koyama 1-chome, Shinagawa-ku, Tokyo 142-8558 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of seventh joint inventor: Hiroyuki TSUCHIYA

Inventor's signature: _____

Date: _____

Residence: c/o NISSIN ELECTRIC Co., Ltd.,
47, Umez-Takase-Cho, Ukyo-ku, Kyoto-city, Kyoto 615-8686 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of eighth joint inventor: Toshiki GOTO

Inventor's signature: _____

Date: _____

Residence: c/o OTSUKA CHEMICAL Co., Ltd.,
2-27, Otedori 3-chome, Chuo-ku, Osaka-city, Osaka 540-0021 Japan

Citizenship: Japanese

Mailing Address: SAME AS ABOVE

Full name of ninth joint inventor: Xu LI

Inventor's signature: Xu Li

Date: 2005 Sep. 30

Residence: c/o DAIKEN CHEMICAL Co., Ltd.,

7-19, Hanaten-nishi 2-chome, Joto-ku, Osaka-city, Osaka 536-0011 Japan

Citizenship: China

Mailing Address: SAME AS ABOVE